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CBPFC also prepares *Herbage Abstracts* and *Field Crop Abstracts*.

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CAB INTERNATIONAL (CABI), formerly the Commonwealth Agricultural Bureaux, is a cooperative not-for-profit organization owned, administered and financed by member governments. It was established in 1928, currently has 29 members, and has the status and privileges of an international organization in the UK. A new treaty-level constitution, giving CABI the status of an Inter-Governmental Organization, is in the process of ratification.

CABI's organizational structure comprises the Review Conference of member governments, which meets every five years; the Executive Council, with one representative from each member government, which meets four times per year; and the Directorate, including CABI Headquarters and its 14 Institutes and Bureaux. The Director General is the chief executive, controlling the 375 staff, two thirds of whom are at managerial or professional level, through three Directors, for Information, Scientific and Administrative Services.

The organization exists to provide information, scientific and development services for agriculture and allied disciplines throughout the world.

INFORMATION SERVICES

The chief function of the Information Services is to provide ready access to published information on research in agriculture and allied disciplines, including rural development.

Over 100 scientists/linguists at CABI's Bureaux and Institutes scan the world literature, select the significant items, and prepare an informative abstract of each which is entered into the CAB ABSTRACTS database. With some 2 million records in the database since 1973, and 3 million more in printed journals back to 1930, the total archive provides a unique encyclopaedic resource of unsurpassed reliability and quality.

The CAB ABSTRACTS database is publicly accessible online from major international online vendors and from CABI. It is used to provide current awareness and retrospective information services in hard copy and machine-readable form. Chief among these are 46 printed abstract journals, which are taken by 10,000 subscribing organizations worldwide. New journals are started in response to changing users' needs or if sponsors guarantee the circulation. Users needing more specific information may select outputs that match their particular requirements, helped if necessary by CABI's subject experts; outputs are supplied as magnetic tape, computer printout, microfiche or floppy disk. The database is also available on optical disk (CD-ROM), a new technology ideally suited to developing countries. To complete the service, photocopies of original articles are provided on request through the CABI Library Services.

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Other functions of the Information Services include compilation of specialized databanks and directories, publication of primary journals, authoritative reviews and books, and training in information transfer for librarians, documentalists and information specialists.

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The Scientific Services of CABI are provided by four Institutes. Three deal with the science of taxonomy and provide identification and related services; the fourth deals with biological control.

CAB International Institute of Entomology (CIE)

CIE provides an identification service for insects, mites and other arthropods, especially species that are of actual or potential important as pests, parasitoids, predators and pollinators or are otherwise relevant to agriculture, forestry or related subjects. Contract research is also undertaken in these fields. The Institute's taxonomists work in the British Museum (Natural History) where they have access to the Museum's 23 million reference specimens of insects and mites, an incomparable aid to authoritative identifications and research on arthropod classification.

CAB International Mycological Institute (CMI)

CMI is the largest centre for systematic mycology in the world and provides a service for the identification of filamentous fungi and plant-pathogenic bacteria. It has about 300,000 dried reference specimens, a culture collection of more than 12,500 isolates, an extensive library, a Biodeterioration and Industrial Services Laboratory, a Biochemical Laboratory, and a Plant Pathology Liaison Unit. The Institute provides a wide range of consultancy and contract services for plant pathologists and industry. It incorporates the UK National Collection of Fungus Cultures and the Biodeterioration Centre.

CAB International Institute of Parasitology (CIP)

CIP provides an identification service for plant-parasitic and entomophilic nematodes, and helminth parasites of animals and man. The reference collections contain over 65,000 specimens, and an extensive specialist library is maintained. The Tropical Plant Nematology Advisory and Research Unit provides practical advice on plant-parasitic nematodes and their control worldwide, and the Institute also houses the WHO Filarial Reference Collection.

CAB International Institute of Biological Control (CIBC)

CIBC provides information and advice on biological control, undertakes research and implementation of programmes on biological control of major pests and weeds, and participates in integrated pest management programmes in association with other agencies. It has its headquarters in the UK but operates also from stations at Delémont, Switzerland; Bangalore, India; Rawalpindi, Pakistan; Nairobi, Kenya; and Curepe, Trinidad, West Indies.

All four Institutes carry out research, and offer a wide range of training activities from postgraduate studentships to special training courses both in the UK and abroad.

DEVELOPMENT SERVICES

The Development Services provide a focus for CABI consulting activities.

The Development Services Group was established in 1986 to provide a sharper focus for CABI's consulting activities. It draws heavily on the unique scientific expertise and information resources available in the CABI Institutes and Bureaux, and its activities are backed by nearly sixty years of CABI involvement in science and world agriculture.

The Development Services offer practical advice and assistance on many pest-related or environmental problems in agriculture. Specific services include:

— project appraisal
— advice in a range of scientific disciplines
— research supervision
— research evaluation
— project implementation.

These services are offered in situations ranging from short-term individual consultancies to project components and major development projects. The current focus is on:

— integrated pest management programmes
— national crop protection services
— pest/disease identification and control
— crop-orientated pest and disease surveys.

One component of these activities that can be extended to any branch of agriculture or development is the provision of a comprehensive information service, involving expert review and analysis of all relevant literature.

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Abbreviations

A list of abbreviations and common names of herbicides is given at the back of the Journal.

abs.	abstract	in	inch	pp.	pages
a.e.	acid equivalent	in^2	square inch	p.p.m.	parts per million
a.i.	active ingredient	IR	infra-red	p.p.m.v.	parts per million by volume
b.p.	boiling point	kcal	kilocalorie		
bu	bushel	kg	kilogramme	p.p.m.w.	parts per million by weight
°C	degrees Celsius (formerly Centigrade)	LC_{50}	median lethal concentration (median tolerance limit or TL_m)	pre-em.	pre-emergence
conc.	concentrated			p.t.o.	power take off
concn.	concentration	LD_{50}	median lethal dose	pt	pint
cv.	cultivar(s)	lb	pound	ref.	references
cwt	hundredweight	lbf/in^2	pounds-force per square inch	RH	relative humidity
d.b.h.	diameter at breast height	M	molar concentration	s	second
		m	metre	sp.	species
diam.	diameter	m-	milli-(x 10^{-3})	spp.	species (plural)
DM	dry matter	μ-	micro (x 10^{-6})	ssp.	subspecies
dz	Doppelzentner (= 100 kg)	μm	micron	t	tonne (Mg)
		m^2	square metre	temp.	temperature
e.c.	emulsifiable concentrate	m.c.	moisture content	TLC	thin-layer chromatography
°F	degrees Fahrenheit	mg	milligramme	u.l.v.	ultra low volume
ft	foot	min	minute	UV	ultra-violet
ft^2	square foot	ml	millilitre	var.	*varietas*
g	gramme	mm	millimetre	vol.	volume
gal	gallon	m.p.	melting point	wt	weight
GLC	gas-liquid chromatography	N	normal concentration	w.p.	wettable powder
		n	nano-(x 10^{-9})	yd	yard
h	hour	OM	organic matter	>	more than
ha	hectare	oz	ounce	<	less than
hkg	hectokilogramme	p.	page	±	with or without
hp	horsepower	post-em.	post-emergence	%	percent(age)

Compounds not yet given an approved common name will be indexed under their chemical name. The common names given in the index will be in accordance with those listed for use in *Weed Abstracts*.

Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

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Use of 'a.i.', 'a.e.' etc. Unless otherwise stated, rates of application for growth-regulator herbicides such as 2,4-D, MCPA, fenoprop, dalapon, the benzoics, etc. are given as the acid equivalent. Rates for other herbicides such as the ureas, carbamates, triazines, etc. are given as the active ingredient. Rates for the bipyridyls refer to the cation, only.

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C·A·B International Bureau of Pastures and Field Crops prepares records for three monthly main journals, *Weed Abstracts, Field Crop Abstracts* and *Herbage Abstracts*. These journals cover world scientific literature on weeds, weed control and herbicides, annual field crops, pastures, herbage crops and rangelands and provide a comprehensive guide to current scientific developments and a key to literature published in the past. The Bureau also publishes review articles on selected subjects in *Herbage Abstracts* and *Field Crop Abstracts*.

Scope of *Weed Abstracts:* Weeds and weed control in all types of crop and non-crop situations, biology of weeds, herbicide chemistry, property, analysis and toxicology, application of herbicides and other related aspects. A full listing of aspects dealt with is given in the contents page.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

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List of common names and abbreviations employed for currently used herbicides and plant growth regulators in *Weed Abstracts*

An asterisk (*) signifies approval by the International Organization for Standardization (ISO)
A dagger (†) signifies approval by the British Standards Institution (BSI)
A plus (+) signifies approval by the Weed Science Society of America (WSSA) or ANSI

acifluorfen†+*	5-(2-chloro-4-trifluoromethylphenoxy)-2-nitrobenzoic acid
aclonifen†	2-chloro-6-nitro-3-phenoxyaniline
acrolein	acrylaldehyde
alachlor†+*	α-chloro-2′,6′-diethyl-*N*-(methoxymethyl)acetanilide
allidochlor†*	*N*,*N*-dially-2-chloroacetamide
alloxydim†	2-[1-(*N*-allyloxyamino)butylidene]-4-methoxycarbonyl-5,5-dimethylcyclohexane-1,3-dione
alorac†*	(*Z*)-2,3,5,5,5-pentachloro-4-oxopent-2-enoic acid
ametridione†	1-amino-6-ethylthio-3-neopentyl-1,3,5-triazine-2,4-dione
ametryn†*	4-ethylamino-6-isopropylamino-2-methylthio-1,3,5-triazine
amibuzin†	6-*tert*-butyl-3-dimethylamino-4-methyl-1,2,4-triazin-5(4*H*)-one
amitrole+*†	3-amino-1,2,4-triazole
amiprofos-methyl†*	*O*-methyl *O*-(4-methyl-2-nitrophenyl)*N*-isopropylphosphoramidothioate
ammonium sulphamate*	ammonium sulphamate
ancymidol†*	α-cyclopropyl-4-methoxy-α-pyrimidin-5-ylbenzyl alcohol
anilofos†	*S*-4-chloro-*N*-isopropylcarbaniloylmethyl *O*,*O*-dimethyl phosphorodithioate
asulam†+*	methyl(4-aminobenzenesulphonyl)carbamate
atraton†+*	4-ethylamino-6-isopropylamino-2-methoxy-1,3,5-triazine
atrazine†+*	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine
aziprotryne†*	2-azido-4-isopropylamino-6-methylthio-1,3,5-triazine
barban†+*	4-chlorobut-2-ynyl-*N*-(3-chlorophenyl)carbamate
benazolin†*	4-chloro-2-oxobenzothiazolin-3-ylacetic acid
benfluralin†*	*N*-butyl-*N*-ethyl-2,6-dinitro-4-trifluoromethylaniline
benfuresate†	2,3-dihydro-3,3-dimethylbenzofuran-5-yl ethanesulphonate
bensulide†+*	*O*,*O*-di-isopropyl *S*-2-benzenesulphonamidoethyl phosphorodithioate
bentazone†*	3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide
benzadox†+	benzamido-oxyacetic acid
benzipram†	*N*-benzyl-*N*-isopropyl-3,5-dimethylbenzamide
benzofenap†	2-[4-(2,4-dichloro-*m*-toluoyl)-1,3-dimethylpyrazol-5-yloxy]-4′-methylacetophenone
benzoylprop-ethyl†*	ethyl *N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate
benzthiazuron†*	*N*-(benzothiazol-2-yl)-*N*-methylurea
bifenox+*	methyl 5-(2,4-dichlorophenoxy)-2-nitrobenzoate
bilanafos†	4-[hydroxy(methyl)phosphinoyl]-L-homoalanyl-L-alanyl-L-alanine
bromacil†+*	5-bromo-6-methyl-3-(1-methyl-n-propyl)uracil
bromobutide†	(*RS*)-2-bromo-*N*-(α,α-dimethylbenzyl)-3,3-dimethylbutyramide
bromofenoxim†*	3,5-dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenyloxime
bromoxynil†+*	3,5-dibromo-4-hydroxybenzonitrile
buminafos†	dibutyl 1-butylaminocyclohexylphosphonate
butachlor†+	*N*-(butoxymethyl)-α-chloro-2,6-diethylacetanilide
butamifos†*	*O*-ethyl *O*-(5-methyl-2-nitrophenyl) *N*-s-butylphosphoramidothioate
buthidazole†+*	4-hydroxy-1-methyl-3-(2-t-butyl-1,3,4-thiadiazol-5-yl)imidazolidin-2-one
buthiuron†*	*N*′-(5-butylsulphonyl-1,3,4-thiadiazol-2-yl)-*N*,*N*′-dimethylurea
butralin†+*	*N*-s-butyl-4-t-butyl-2,6-dinitroaniline
buturon†+*	*N*′-(4-chlorophenyl)-*N*-(1-methylprop-2-ynyl)-*N*-methylurea
butylate†+*	*S*-ethyl *N*,*N*-di-isobutyl(thiocarbamate)
cambendichlor†+*	2,2′-(phenylimino)diethylene bis(3,6-dichloro-2-methoxybenzoic acid)
carbetamide†+*	D-*N*-ethyl-2-(phenylcarbamoyloxy)propionamide
chlomethoxyfen†	5-(2,4-dichlorophenoxy)-2-nitroanisole
chloramben†+*	3-amino-2,5-dichlorobenzoic acid
chloranocryl†*	*N*-)3,4-dichlorophenyl)methacrylamide
chlorazifop†	2-(4-(3,5-dichloro-2-pyridyloxy)phenoxy)propionic acid

chlorbromuron†+*	*N'*-(4-bromo-3-chlorophenyl)-*N*-methoxy-*N*-methylurea
chlorbufam†*	1-methylprop-2-ynyl *N*-(3-chlorophenyl)carbamate
chloreturon†*	*N'*-(3-chloro-4-ethoxyphenyl)-*N,N*-dimethylurea
chlorfenac†*	2,3,6-trichlorophenylacetic acid
chlorfenprop-methyl†*	methyl 2-chloro-3-(4-chlorophenyl)propionate
chlorflurenol*	2-chloro-9-hydroxyfluorene-9-carboxylic acid
chlorfluren†*	2-chlorofluorene-9-carboxylic acid
chloridazon†*	5-amino-4-chloro-2-phenylpyridazin-3(2*H*)-one
chlorimuron†	2-(4-chloro-6-methoxypyrimidin-2-ylcarbamoylsulphamoyl)benzoic acid
chlormequat†*	2-chloroethyltrimethylammonium chloride
chlornitrofen†*	4-nitrophenyl 2,4,6-trichlorophenyl ether
chlorotoluron†*	*N'*-(3-chloro-4-methylphenyl)-*N,N*-dimethylurea
chloroxuron†+*	*N*-4-(4-chlorophenoxy)phenyl-*N,N*-dimethylurea
chlorphonium†*	tributyl-2,4-dichlorobenzylphosphonium
chlorpropham†+*	isopropyl *N*-(3-chlorophenyl)carbamate
chlorsulfuron†+	*N'*-(2-chlorobenzenesulphonyl)-*N*-(4-methoxy-6-methyl-1,3,5-triazin-1-yl)urea
chlorthal-dimethyl†*	dimethyl 2,3,5,6-tetrachloroterephthalate
chlorthiamid†*	2,6-dichlorothiobenzamide
cinmethylin†	(1*R*,2*S*,4*S*)-1,4-epoxy-*p*-menth-2-yl 2-methylbenzyl ether
cisanilide+	2,5-dimethyl-1-pyrrolidinecarboxanilide
cliodinate†	2-chloro-3,5-di-iodo-4-pyridyl acetate
clomeprop	(*RS*)-2-(2,4-dichloro-*m*-tolyloxy)propionanilide
cloprop†*	2-(3-chlorophenoxy)propionic acid
cloproxydim†	(±)-2-[1-(3-chloroallyloxyimino)butyl]-5-(2-ethylthiopropyl-3-hydroxycyclohex-2-enone
clopyralid†	3,6-dichloropyridine-2-carboxylic acid
4-CPA†+*	4-chlorophenoxyacetic acid
cyanatryn†*	4-(1-cyano-1-methylethylamino)-6-ethylamino-2-methylthio-1,3,5-triazine
cyanazine†+*	2-chloro-4-(1-cyano-1-methylethylamino)-6-ethylamino-1,3,5-triazine
cycloate†+*	*S*-ethyl *N*-cyclohexyl-*N*-ethyl-(thiocarbamate)
cycloxydim	(*RS*)-2-[1-(ethoxyimino)butyl]-3-hydroxy-5-thian-3-ylcyclohex-2-enone
cycluron†+*	*N'*-cyclo-octyl-*N,N*-dimethylurea
cyometrinil†	(*Z*)-α-(cyanomethoxyimino)benzeneacetonitrile
cyperquat†+*	1-methyl-4-phenylpyridinium
cyprazine†+*	2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine
cyprazole†+*	*N*-[5-(2-chloro-1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl]cyclopropanecarboxamide
cypromid†+*	3,4-dichlorocyclopropanecarboxanilide
2,4-D†+*	2,4-dichlorophenoxyacetic acid
daimuron†	1-(1-methyl-1-phenylethyl)-3-*p*-tolylurea
dalapon†+	2,2-dichloropropionic acid
daminozide†*	*N*-dimethylaminosuccinamic acid
dazomet†+*	3,4,5,6-tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione
2,4-DB†+	4-(2,4-dichlorophenoxy)butyric acid
delachlor†+*	α-chloro-*N*-(isobutoxymethyl)-2′,6′-acetxylidide
desmedipham†+*	3-(ethoxycarbonylamino)phenyl *N*-phenylcarbamate
desmetryn†*	4-isopropylamino-6-methylamino-2-methylthio-1,3,5-triazine
di-allate†*	*S*-2,3-dichloroallyl *N,N*-di-isopropyl(thiocarbamate)
dicamba†+*	3,6-dichloro-2-methoxybenzoic acid
dichlobenil†+*	2,6-dichlorobenzonitrile
dichlone†+*	2,3-dichloro-1,4-naphthoquinone
dichloralurea*	dichloral urea
dichlorflurenol†*	2,7-dichloro-9-hydroxyfluorene-9-carboxylic acid
dichlormate†+*	3,4-dichlorobenzyl *N*-methylcarbamate
dichlorprop†+*	(±)-2-(2,4-dichlorophenoxy)propionic acid
diclofop†*	2-[4-(2,4-dichlorophenoxy)phenoxy]propionic acid
diethamquat†*	1,1′-di(diethylcarbamoylmethyl)-4,4′-bipyridyl-1,1′-diylium
diethatyl†+*	*N*-chloroacetyl-*N*-(2,6-diethylphenyl)aminoacetic acid
difenopenten†*	4-[4-(4-trifluoromethylphenoxy]pent-2-enoic acid
difenoxuron†+*	*N'*-4(4-methoxyphenoxy)-*N,N*-dimethylurea
difenzoquat†+*	1,2-dimethyl-3,5-diphenylpyrazolium
diflufenican†*	2′,4′-difluoro-2-(α,α,α-trifluoro-*m*-tolyloxy)nicotinanilide
dikegulac†*	2,3:4,6-di-*O*-isopropylidene-α-L-xylo-2-hexulofuranosonic acid
dimefuron†*	4-[2-chloro-4-(3,3-dimethylureido)phenyl]-2-t-butyl-1,3,4-oxadiazolin-5-one
dimepiperate†	*S*-1-methyl-1-phenylethyl piperidine-1-carbothioate
dimethachlor†*	α-chloro-*N*-(2-methoxyethyl)-2′,6′-acetxylidide

dimethametryn†*	2-(1,2-dimethylpropylamino)-4-ethylamino-6-methylthio-1,3,5-triazine
dimexano†*	*O,O*-diethyl dithiobis(thioformate)
dimidazon†*	4,5-dimethoxy-2-phenylpyridazin-3(2*H*)-one
dinitramine†+*	N^1,N^1-diethyl-2,6-dinitro-4-trifluoromethyl-*m*-phenylenediamine
dinoseb†*	2-(1-methylpropyl)-4,6-dinitrophenol
dinoterb†*	4,6-dinitro-2-t-butylphenol
diphenamid†+*	*N,N*-dimethyl-α,α-diphenylacetamide
dipropetryn†+*	2-ethylthio-4,6-di(isopropylamino)-1,3,5-triazine
diquat†+*	9,10-dihydro-8a,10a-diazoniaphenanthrene
disul*	2-(2,4-dichlorophenoxy)ethyl hydrogen sulphate
diuron†+*	*N'*-(3,4-dichlorophenyl)-*N,N*-dimethylurea
DNOC†+*	2-methyl-4,6-dinitrophenol
DSMA+	disodium methylarsonate
eglinazine†*	*N*-(4-chloro-6-ethylamino-1,3,5-triazin-2-yl)aminoacetic acid
endothal†	7-oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid
epronaz†*	1-(*N*-ethyl-*N*-propylcarbamoyl)-3-propylsulphonyl-1,2,4-triazole
EPTC†+*	*S*-ethyl *N,N*-dipropyl(thiocarbamate)
erbon+*	2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate
etacelasil†*	2-chloroethyltri-(2-methoxyethoxy)silane
ethalfluralin†+*	*N*-ethyl-*N*-(2-methylallyl)-2,6-dinitro-4-trifluoromethylanilline
ethephon+	2-chloroethylphosphonic acid
ethidimuron†*	*N'*-(5-ethylsulphonyl-1,3,4-thiadiazol-2-yl)-*N,N'*-dimethylurea
ethiolate†+*	*S*-ethyl diethylthiocarbamate
ethofumesate†+*	2-ethoxy-2,3-dihydro-3,3-dimethylbenzofuran-5-yl methylsulphonate
etnipromid†	(±)-2-[5-(2,4-dichlorophenoxy)-2-nitrophenoxyl]-*N*-ethylpropionamide
fenasulam†	methyl 4-[2-(4-chloro-*o*-tolyloxy)acetamido]phenylsulphonylcarbamate
fenclorim†	4,6-dichloro-2-phenylpyrimidine
fenoprop†*	(±)-2-(2,4,5-trichlorophenoxy)propionic acid
fenoxaprop†	(*RS*)-2-[4-(6-chloro-1,3-benzoxazol-2-yloxy)phenoxyl]propionic acid
fenridazon†	1-(4-chlorophenyl)-1,4-dihydro-6-methyl-4-oxopyridazine-3-carboxylic acid
fenteracol†*	2-(2,4,5-trichlorophenoxy)ethanol
fenthiaprop†	(*RS*)-2-[4-(6-chloro-1,3-benzothiazol-2-yloxy)phenoxy]propionic acid
fenuron†+*	*N,N*-dimethyl-*N'*-phenylurea
flamprop†*	(±)-2-(*N*-benzoyl-3-chloro-4-fluoroanilino)propionic acid
fluazifop†	(±)-2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propionic acid
fluchloralin†+*	*N*-(2-chloroethyl)-2,6-dinitro-*N*-propyl-4-(trifluoromethyl)aniline
flufenican†	2-(α,α,α-trifluoro-*m*-tolyloxy)nicotinanilide
fluometuron†+*	*N'*-(3-trifluoromethylphenyl)-*N,N*-dimethylurea
fluoridamid†*	3-trifluoromethylsulphonamidoacet-*p*-toluidide
fluorodifen†+*	4-nitrophenyl 2-nitro-4-trifluoromethylphenyl ether
fluoromidine†*	6-chloro-2-trifluoromethyl-3*H*-imidazo[4,5-*b*]pyridine
fluoronitrofen†*	2,4-dichloro-6-fluorophenyl 4-nitrophenyl ether
fluothiuron†*	*N*-(3-chloro-4-chlorodifluoromethylthiophenyl)-*N',N'*-dimethylurea
flupropanate†	2,2,3,3-tetrafluoropropionic acid
flurenol†*	9-hydroxyfluorene-9-carboxylic acid
fluridone†+*	1-methyl-3-phenyl-5-(3-trifluoromethylphenyl)pyridin-4-one
fluroxypyr†	4-amino-3,4-dichloro-6-fluoro-2-pyridyloxyacetic acid
fomesafen†	2-chloro-4-trifluoromethylphenyl 3-methylphenylcarbamoyl-4-nitrophenyl ether
fosamine†+*	ethyl hydrogen carbamoylphosphonate
gibberellic acid*	GA
glufosinate†	DL-homoalanin-4-yl(methyl)phosphinic acid
glyphosate†+*	*N*-(phosphonomethyl)glycine
glyphosine†*	*N,N*-bis(phosphonomethyl)glycine
haloxydine†*	3,5-dichloro-2,6-difluoro-4-hydroxypyridine
haloxyfop+	2-ethoxyethyl 2-[4-(3-chloro-5-trifluoromethyl-2-pyridyloxy)phenoxy]propionate
hexaflurate+	potassium hexafluoroarsenate
hexazinone†+*	3-cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4-dione
holosulf†*	(2-chloroethyl)sulphinic acid
IAA	indolylacetic acid
IBA	indolylbutyric acid
imazapyr†	(*RS*)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid

imazaquin†	2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)quinoline-3-carboxylic acid
imazethapyr	5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid
ioxynil†+*	4-hydroxy-3,5-di-iodobenzonitrile
isocarbamid†*	*N*-isobutylimidazolidin-2-one-1-carboxamide
isomethiozin†*	4-(isobutylideneamino)-3-methylthio-6-t-butyl-1,2,4-triazine-5-one
isopolinate†	*S*-isopropyl perhydroazepine-1-carbothioate
isopropalin†+*	4-isopropyl-2,6-dinitro-*N,N*-dipropylaniline
isoproturon†*	*N'*-(4-isopropylphenyl)-*N,N*-dimethylurea
isopyrimol†*	4-chloro-α-isopropyl-α-(pyrimidin-5-yl)benzyl alcohol
isouron†+	*N'*-(5-butylisoxazol-3-yl)-*N,N*-dimethylurea
isoxaben†	*N*-[3-(ethyl-1-methylpropyl)isoxazol-5-yl]-2,6-dimethoxybenzamide
karbutilate†+*	*m*-(3,3-dimethylureido)phenyl t-butylcarbamate
lenacil†+*	3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4(3*H*,5*H*)-dione
linuron†+*	*N'*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea
maleic hydrazide*	1,2,3,6-tetrahydro-3,6-dioxopyridazine
MAMA+	monoammonium methylarsonate
MCPA+	4-chloro-2-methylphenoxyacetic acid
MCPB†+*	4-(4-chloro-2-methylphenoxy)butyric acid
mecoprop†+*	(±)-2-(4-chloro-2-methylphenoxy)propionic acid
medinoterb†*	4,6-dinitro-5-methyl-2-t-butylphenol
mefluidide†+*	5-trifluoromethylsulphonylamino-2',4'-acetxylidide
mepiquat†+*	1,1-dimethylpiperidinium ion
metamitron†*	4-amino-3-methyl-6-phenyl-1,2,4-triazin-5(4*H*)-one
metazachlor†	α-chloro-*N*-(1-pyrazolylmethyl)acet-2',6'-xylidide
metflurazon†*	4-chloro-5-(dimethylamino)-2-(3-trifluoromethylphenyl)pyridazin-3(2*H*)-one
methabenzthiazuron†*	*N*-(benzothiazol-2-yl)-*N,N'*-dimethylurea
methalpropalin†+*	*N*-methylally-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline
metham†+	*N*-methyldithiocarbamic acid
methazole+	2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione
methiobencarb†*	*S*-(4-methoxybenzyl) *N,N*-diethylthiocarbamate
methometon†*	2-methoxy-4,6-bis(3-methoxypropylamino)-1,3,5-triazine
methoprotryne†*	4-isopropylamino-6-(3-methoxypropylamino)-2-methylthio-1,3,5-triazine
metobromuron†+*	*N'*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea
metolachlor†+*	α-chloro-6-ethyl-*N*-(2-methoxy-1-methylethyl)-*o*-acetoluidide
metoxuron†*	*N'*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea
metribuzin†+*	4-amino-6-t-butyl-3-(methylthio)-1,2,4-triazin-5(4*H*)-one
metsulfuron†	2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)ureidosulphonyl]benzoic acid
molinate†+*	*S*-ethyl*N,N*-hexamethylene(thiocarbamate)
monalide†*	*N*-(4-chlorophenyl)-2,2-dimethylvaleramide
monisouron†	1-(5-*tert*-butylisoxazol-3-yl)-3-methylurea
monolinuron†+*	*N'*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea
monuron†+*	*N'*-(4-chlorophenyl)-*N,N*-dimethylurea
morfamquat†*	1,1-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4'-bipyridylium
MSMA+	monosodium methylarsonate
NAA	1-naphthylacetic acid
napropamide†+	*N,N*-diethyl-2-(α-naphthoxy)propionamide
naptalam†+*	*N*-1-naphthylphthalamic acid
neburon†+*	*N*-butyl-*N'*-(3,4-dichlorophenyl)-*N*-methylurea
nitralin†+*	4-(methylsulphonyl)-2,6-dinitro-*N,N*-dipropylaniline
nitrofen†+*	2,4-dichlorophenyl 4-nitrophenyl ether
nitrofluorfen†+*	2-chloro-4-trifluoromethylphenyl 4-nitrophenyl ether
norflurazon†+*	4-chloro-5-methylamino-2-(3-trifluoromethylphenyl)pyridazin-3-one
noruron†*	*N'*-(hexahydro-4,7-methanoindan-5-yl)-*N,N*-dimethylurea
orbencarb†	*S*-2-chlorobenzyl diethylthiocarbamate
oryzalin†+*	3,5-dinitro-N^4N^4-dipropylsulphanilamide
oxadiazon†+*	3-(2,4-dichloro-5-isopropoxyphenyl)-5-t-butyl-1,3,4-oxadiazolin-2-one
oxyfluorfen†+*	2-chloro-4-trifluoromethylphenyl 3-ethoxy-4-nitrophenyl ether
paraquat†+*	1,1'-dimethyl-4,4'-bipyridylium
pentachlorophenol*	pentachlorophenol
pebulate†+*	*S*-propyl *N*-butyl-*N*-ethyl(thiocarbamate)
pendimethalin†+*	*N*-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine
pentanochlor†*	*N*-(3-chloro-4-methylphenyl)-2-methylpentanamide
perfluidone†+*	4'-(phenylsulphonyl)trifluoromethylsulphono-*o*-toluidide
phenisopham†	3-isopropoxycarbonylaminophenyl *N*-ethyl-*N*-phenylcarbamate

phenmedipham†+*	3-(methoxycarbonylamino)phenyl *N*-(3-methylphenyl)carbamate
phenmedipham-ethyl†*	3-ethoxycarbonylaminophenyl *N*-(3-methylphenyl)carbamate
phenobenzuron†*	*N'*-benzoyl-*N'*-(3,4-dichlorophenyl)-*N,N*-dimethylurea
picloram†+*	4-amino-3,5,6-trichloropicolinic acid
piperophos†*	*S*-2-methyl-1-piperidylcarbonylmethyl *O,O*-di-n-propylphosphorodithioate
piproctanyl†*	1-ally-1-(3,7-dimethyloctyl)piperidinium ion
pretilachlor†*	α-chloro-2,6-diethyl-*N*-(2-propoxyethyl)acetanilide
procyazine†+*	2-chloro-4-(1-cyano-1-methylethylamino)-6-cyclopropylamino-1,3,5-triazine
prodiamine†*	2,6-dinitro-*N',N'*-dipropyl-4-trifluoromethyl-*m*-phenylenediamine
profluralin†+*	*N*-(cyclopropylmethyl)-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline
proglinazine†*	*N*-(4-chloro-6-isopropylamino-1,3,5-triazin-2-yl)aminoacetate
prometon†*	4,6-bisisopropylamino-2-methoxy-1,3,5-triazine
prometryn†*	2,4-bis(isopropylamino)-6-methylthio-1,3,5-triazine
propachlor†+*	α-chloro-*N*-isopropylacetanilide
propanil†+*	*N*-(3,4-dichlorophenyl)propionamide
propazine†+*	2-chloro-4,6-bisisopropylamino-1,3,5-triazine
propham†+*	isopropyl *N*-phenylcarbamate
propyzamide†*	3,5-dichloro-*N*-(1,1-dimethylpropynyl)benzamide
prosulfalin†+*	*N*-(4-dipropylamino-3,5-dinitrophenylsulphonyl)-*S,S*-dimethylsulphimide
prynachlor†+*	2-chloro-*N*-(1-methyl-2-propynyl)acetanilide
pydanon†*	(±)-hexahydro-4-hydroxy-3,6-dioxopyridazin-4-ylacetic acid
pyrazoxyfen†	2-[4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetophenone
pyridate†*	octyl *O*-(6-chloro-3-phenylpyridazin-4-yl)carbonothioate
quinclorac†	3,7-dichloroquinoline-8-carboxylic acid
quinonamid†*	3-chloro-2-dichloroacetamido-1,4-naphthoquinone
quizalofop†	(*RS*)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionic acid
sebuthylazine†*	2-chloro-4-ethylamino-6-*s*-butylamino-1,3,5-triazine
secbumeton†+*	4-ethylamino-2-methoxy-6-*s*-butylamino-1,3,5-triazine
sethoxydim†	(±)2-[1-(ethoxyimino)butyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one
siduron†+*	*N*-(2-methylcyclohexyl)-*N*-phenylurea
simazine†+*	2-chloro-4,6-bisethylamino-1,3,5-triazine
simetryn†*	2,4-bis(ethylamino)-6-methylthio-1,3,5-triazine
SMA	sodium monochloroacetate
sulfallate†*	2-chloroally *N,N*-diethyldithiocarbamate
sulfometuron†	2-[3-(4,6-dimethylpyrimidin-2-yl)ureidosulphonyl]benzoic acid
sulglycapin†*	azepan-1-ylcarbonylmethyl methylsulphamate
swep+	methyl *N*-(3,4-dichlorophenyl)carbamate
2,4,5-T†+*	2,4,5-trichlorophenoxyacetic acid
2,4,5-TB†*	4-(2,4,5-trichlorophenoxy)butyric acid
2,3,6-TBA+*	2,3,6-trichlorobenzoic acid
TCA+*	trichloroacetic acid
tebuthiuron†+*	*N,N'*-dimethyl-*N*-(5-t-butyl-1,3,4-thiadiazol-2-yl)urea
tebutam†	*N*-benzyl-*N*-isopropylpivalamide
terbacil†+	5-chloro-6-methyl-3-t-butyluracil
terbucarb†*	2,6-di-t-butyl-*p*-tolyl *N*-methylcarbamate
terbuchlor†+*	*N*-butoxymethyl-α-chloro-6-t-butyl-*o*-acetoluidide
terbumeton†*	4-ethylamino-2-methoxy-6-t-butylamino-1,3,5-triazine
terbuthylazine†+*	2-chloro-4-ethylamino-6-t-butylamino-1,3,5-triazine
terbutryn†*	2-*tert*-butylamino-4-ethylamino-6-methylthio-1,3,5-triazine
tetrafluron†+*	*N,N*-dimethyl-*N'*-[3-(1,1,2,2-tetrafluoroethoxy)phenyl]urea
thiazafluron†*	1,3-dimethyl-1-(5-trifluoromethyl-1,3,4-thiadiazol-2-yl)urea
thidiazuron†*	*N*-phenyl-*N'*-(1,2,3-thiadiazol-5-yl)urea
thiobencarb†+*	*S*-(4-chlorobenzyl)*N,N*-diethylthiocarbamate
TIBA	2,3,5-triiodobenzoic acid
tiocarbazil†	*S*-benzyl di(*sec*-butyl)thiocarbamate
tri-allate†*	*S*-2,3,3-trichloroally*N,N*-di-isopropyl(thiocarbamate)
triclopyr†+*	3,5,6-trichloro-2-pyridyloxyacetic acid
tridiphane†	(±)-2-(3,5-dichlorophenyl)-2-(2,2,2-trichloroethyl)oxirane
trietazine†+*	2-chloro-4-diethylamino-6-ethylamino-1,3,5-triazine
trifluralin†+*	2,6-dinitro-*N,N*-dipropyl-4-trifluoromethylaniline
trifop†*	2-[4-(4-trifluoromethylphenoxy)phenoxy]propionic acid
trifopsime†	acetone(*R*)-*0*-(2-[4-(α,α,α-trifluoro-*p*-tolyloxy)phenoxy]propionyl)oxime
trimeturon†+	*N'*-(4-chlorophenyl)-*O,N,N*-trimethylisourea
tripropindan†*	6-isopropyl-1,1,4-trimethyl-5-propionylindane
vernolate†+*	*S*-propyl *N,N*-dipropyl(thiocarbamate)

C·A·B INTERNATIONAL
PUBLICATIONS AND SERVICES

GENERAL INFORMATION

CAB International (formerly the Commonwealth Agricultural Bureaux) is an international non-profit organization controlled by governments of member countries. Its main function is to provide a world-wide information service in agriculture, forestry and related areas of applied biology, sociology, economics, engineering and medicine. Two other scientific services are responsible for pest and disease identification, and the application of biochemical techniques to pest management, and a further new arm – the Development Services – formed in 1986, co-ordinates CABI's consultancy expertise.
CAB International is best known for its abstract journals covering each of the main agricultural disciplines (for full list of titles see back cover). The wide range of other publications includes annotated bibliographies, reviews, authoritative books and reference works, and specialized aids to the management of pests and diseases.

Abstract Journals

The 46 abstract journals, which cover specific agricultural disciplines, specialist crops or products, or particular animals are all derived from the CABI production database. In 1987 input to the database will amount to approximately 130 000 records prepared from around 15 000 serials and many other scientific publications in virtually any language.

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Over 3000 Annotated Bibliographies on a wide variety of topics are available. Many are the result of requests and are in photocopy format with abstracts in chronological order but without indexes. Others, on particularly topical or popular subjects are typeset, the abstracts being classified and indexed; some are preceded by a review article. Annotated Bibliography topics may be extended to current awareness profiles to ensure that the information base is kept up to date.

Online Searching

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CAB Alerts

This new service is based on the SDI service described alongside. A number of standard profiles on topics of current interest is being offered.

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